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Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/W No.04/BPM/WMM/Gradation/2016-17 07.07.2016

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.

Agency : **Mr. B.P. Mahesh,** Contractor, Bangalore.

Name of Work : Providing pot hole filling in Judicial Layout in Ward No.04 of Yelahanka New Town Sub Division, BBMP, Bangalore.

Reference : EE(YNK.D)E-PMT-1/W.O/33/2015-16 Dated: 24.02.2016

Date of Testing : 07.07.2016

Material : WMM

Sample Location : WMM Mix Plant Oven Dry Wt (gm): 8360

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	185	185	2.2	97.8	95-100
22.4	2550	2735	32.7	67.3	60-80
11.2	1305	4040	48.3	51.7	40-60
4.75	1150	5190	62.1	37.9	25-40
2.36	995	6185	74.0	26.0	15-30
0.600	960	7145	85.5	14.5	8-22
0.075	865	8010	95.8	4.2	0-8

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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Ramsanjeev AE

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Aggregate Impact Value

IS: 2386 Part IV

Client	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	**Mr. B.P. Mahesh,** Contractor, Bangalore.
Name of the Work	Providing pot hole filling in Judicial Layout in Ward No.04 of Yelahanka New Town Sub Division, BBMP, Bangalore.
Reference	EE(YNK.D)E-PMT-1/W.O/33/2015-16 Dated: 24.02.2016
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	07.07.2016

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	82	84	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	303	302	
4	Aggregate Impact value = percent fines	21.30	21.76	
	$100^* (W_2/W_1)$%			21.53

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Job No : CTCE/BBMP/W.No.04/BPM/WMM/S-T/2016-17 07.07.2016

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Asst. Executive Engineer,** Yelahanka New Town Sub Division, BBMP, Bangalore.
Agency	**Mr. B.P. Mahesh,** Contractor, Bangalore.
Name of Work	Providing pot hole filling in Judicial Layout in Ward No.04 of Yelahanka New Town Sub Division, BBMP, Bangalore.
Reference	EE(YNKD)E-PMT-1/WO/33/2015-16 Dated: 24.02.2016
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	07.07.2016

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Result : Flakiness Index = 11.85%

Elongation Index = 13.25%

Result : Combined Flakiness & Elongation index 25.10%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

Note:

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Job No: CTCE/BBMP/W.No.04/BPM/BC/Bitumen/2016-17 11.07.2016

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

As per IS2386 and IRC:SP:11-1984

CLIENT	Asst. Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
AGENCY	Mr. B.P. Mahesh, Contractor, Bangalore.
NAME OF THE WORK	Providing pot hole filling in Judicial Layout in Ward No.04 of Yelahanka New Town Sub Division, BBMP, Bangalore.
REFERENCE	EE(YNK.D)E-PMT-1/W.O/33/2015-16 Dated: 24.02.2016
SAMPLE I/D	Pot hole filling in Judicial Layout in Ward No.04
DATE OF TESTING	11.07.2016

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	470	469
3. Weight of Asphalt and Mineral matter Extracted, g	30	31
4. Weight of Mineral Matter, g	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g (corrected)	30	31
7. Bitumen content in %	6.00	6.20
8. Average	6.10	

GRADATION AFTER EXTRACTION

TABLE - 1

SIEVE SIZE	Percent Passing, %		JOBMIX
mm	Sample 1	Sample 2	Gradation
19	100.00	100.00	100
13.2	83.36	86.36	79-100
9.5	79.23	75.32	70-88
4.75	63.36	68.12	53-71
2.36	46.12	44.15	42-58
1.18	40.25	37.23	34-48
0.6	32.23	32.26	26-38
0.3	22.32	26.13	18-28
0.15	16.21	15.12	12-20
0.075	6.23	5.99	4-10

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